

NATO Finishes
Fighter Trials

Tracking Camera

Follows ICBM







Shown here see three "big ones" from Boolug—and they have this in common: Massivo and exacting feel cells fabricated by Goodpear.



Such assignments no awarded Goody our Avisaus Projects, because its long experience in the feath field has proved out in record deponds billy of performance. For information we have those planeer shifts and Incilities can serve you, write Goodyste, Avisions Products Division, Alons 16, Ooks,





#### "TOLERANCE ZERO"? BRIINSWICK COMES CLOSE!

Brunswick tockles tolerances microscopic tolerances, bust, so tight, we just completed a friction, stress and fatigue at We work to 2003 or less as a -- bring it to Brunswick

forced plastics, metal honey-Brurewick Bes shallenges bests design through fobrico-Whatever your problem - sub- tion and testing. We can meet Checago 5, Illinois.

**BRUNSWICK** 



no earth helow ... a universe of sky and GO!

Esperance, skilled personnel and modern furfities at Loyelle are focused on the pressure Obrication of Missile. Ram set engine core and diffuser sections for movifolds.





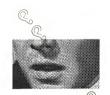
#### SOMETHING NEW IN THE AIR . . . New Jonger roomier Craig Helican-Huts' nack more navinad than ever!

Features: Boards devicement -- loans 10° a 10° a 10° to 100° a 70° a 7350°



For counting colonians, some CRAST today CALLY SYSTEMS, INC. Days N. 13, Danier, Mar. Tol. 475 og 4-1075 ACCUSED AND DESCRIPTION AND PROPERTY AND ADDRESS OF COMMUNICATIONS AND ADDRESS STREET SPACE PROPERTY . . . . Inchestify and public decision prices, obtains

#### AVIATION CALENDAR



#### communication

#### le a cometime thing

Line recommend to voice you thearies belief make nearly madern. makes names. Yet ... for the calls of our parious sufety ... our line

RMI has long been known for its "open and shut" companiestion-for its encoursement of creative discussion not only within RMI but also with others who are working to advance America's cross . . . and for its constant varil to protect America's accress. For over a decade and a half, RMI organion and scientists have been cooperating whole-heartedly with our nation's accurity morrors as they blace new trails

in developing and producing today's . and tomorrow's . . powerplants. Engineers, Balandare - Perhaps you, too, can work with America's Aver rechet famely. You'll find the neublana shiftenine, the mounts reset.



REACTION MOTORS, INC. PERVILLE, NEW JERSEY

# ENTER THIS CONTEST ... 90 CASH PRIZES!



# Why I prefer ALBANENE Tracing Paper...

motified documents, exists accordent existy teams place of Albanerue, too, if you need them, exists an often an you planne. Or one pilal insheed of paper if normatons's sampgood the shalls believe Give your same, and draw more, tweety-rise words or to they you prefer albanerue insurant paper, as the pilal prefer albanerue insurant paper, as by the pilal prefer albanerue insurant paper, as by the fore motivation. Normalize 90, 1667.

In 25 words or less, tell us why you prefer RAE. Albaneon' traviling paper. Your renewor near win over of these by prices (or in Act 1990) and renework traviling papers. When the state of the second prices (or in Act 1990) and renework traviling to be presented to the superior travels. It is presented to the superior travel in the present travel in the present of the superior travels. The present of the superior travels in the superior travels in the superior travels are the superior travels of the superior travels.

KEUFFEL & ESSER CO. for less factor at a delical closur, it land, force fat femilies to Applic, Section

K & E Alboneno Contest, Box 160, F Sere's why I profer Albanea Tracing Papers			
Nessa	City	See	State





The Boeing 707 Stratoliner-America's first iet transport-uses strong, lightweight draftless forgings by Kaiser Aluminum. Reason: A well balanced combination of engineering skill, forging know-how and a broad range of modern equipment available at our Erie Plant.





#### The Bell H-40 Newest Helicopfer on the Line

and the Army Has HI

exercisional handbox surr

First new behavester descript account a highest exercise. But case, designed and hadt to Americansis and presidentates Low in allowette, espekle and rusped, the H-40 meets the consisting on a party many of facts, receive previous and

This new supre-convered behaves as a tribute to the favorable of the mea of Acres Aviation ... and their degree to keep these service "Above the Best." Through their effects and design supervisors, utilities previous knowledge of Array needs, the



bonsoners' on TV.







## Good Service is Good Business

The importance of service is perhaps better understood by archae operators than by any other group of historiation. The phenomenal growth of the arthus industry until is based on a dynamic groups of constantife striving for

We, of the Scintilla Division of Bendix\*, have over the years made every effort to sid the sinknes in accomplishing

Service to us recessi producing the frequential mote under sequences that creative engineering and mans focusing still on achieve, and, of requil importance service means bushing this quaptions with a complete service means bushing this quaptions with a complete and efficient approximation of trained service apposition whose every effort is piece to interest that the customs whose every effort is pre-to-interest that the customs when the conjugation of the consister service conjugation is preparabled in quistion engineers for over thirty years.

Addrage specifying Bendon jor agration engigement have the different assumpts that jet service well in every copiet, much the conflicts service we have given on patter engine engigement that has made Bendon—The More Transon Name In Equition.



[aux] bear to favor.

Some present on the control of Lot And Al., feet Web LT & K.

(A) ON READER OF (A)

111 Processor And Reader, (A) of the Process Andrew (A) of Reader, (A) of Reader





# Enjay Butyl-today's super-rubber improves pipeline protection...cuts costs!

Florefars "Type Coatray, revolutionary new glychiae verapility developed by Florefars, transcribers the estatember proteotics requestion of Europ. Europ floribles with the identification conjection of a collectionary platest files to highly this Bayy is consisted of Agricle were a long little based quarter and foreign a permanent of the state of Agricle were a long triples in State of the state of the state of the state of the state, the state is a state of the state of

pares fewer personnel.

This is still another as the steedby growing mapper of products developed in the Budyl Babber, Contact the Eojay Company for complete information also





ny Mutyl in the super-dural her well-eathbackup recessasgring - altrason - tear spang - ottoling - sales a rist - altrason - gazos 1 - cold - sundale - paris Assessers to the Teachest Problems in Lat Algerraft Cooling

LIGHTWEIGHT THINWAL

# STEWART-WARDER HEAT EXCHANG









The Seath Wind Division of Stewart-Werner processed the



this sealing nut for integral tanks has been

PROVED FOR **5 YEARS** 



MARKET CALFFRANA fort ranks, and other anoficiation where positive sealing is received, this design has been proving its reliability





LATEST HIGH-HEAT INSULATION SYSTEMS NEED CDF GLASS-BASE LAMINATES AND TAPES

Widest avoidable rouge offices Tathen, epoxys, officene, airco products for dissensement stability under contenants beet has components and epositives agrees smaller, and best becomes more difficult to dissipate, CDF high-heat electroned resultation becomes accordingly important to indicatence disease, for reportance of the content of the product of the content of

on in CDF.

FOR HIGH HALT PRINTED CHOATEY, CDF gloss bean restal tital forecastive of Trifers' and epoxy solidate best discussed a stability and commonweapong on purity. Contains operating supergravate of 200°Y—but purity. Contains CDF Valuety international titality and type specifical to programme of 200°Y—but purity and by these specifical CDF Valuety's international HIGH STATE STATES.

HIGH-HALT FLORIGH HIGHLANDIAG. CDF offers a wall-chained readings type made of Trifers, titizens.

LAMINATES AND TAPES

WINDSHIP OF OR ALBERTAL WARRING PROPERTY OF THE BOOK SAND STREET WILL STEE 25'

DEFINIOUS PRACHITE TURBED AND COTTAGE SPECIALISES.

the production of content parts from Telem — and ghosti Indian, rode, shock, and machined parts to right specification.

NPW — remember Telem, bundable to Zinell and to other materials with commercial adheritors.

SEE SWEET'S Product Design File, Electronico Bayers'

CONTINENTAL-DIAMOND FIBRE



# Titanium Tubing

For presence howeveryed Rashed as a strendy the street of the street of



Stainless and High Alloy

TRANS THES COMPANY, GINERAL SALES OFFICES, SAST TROS. WISCONERS (Subilifiery of Cruphia Starl Company of America)

#### UNDER ONE ROOF: FRAME, BRAIN AND MUSCLE FOR A MISSILE

by the Art Force, Navy, Army and BUAF Research

**GUIDANCE**-Development and production of allsurface and VTOL sowed! Rose is the winner and leader in continuous wave radar techniques.

From house during to first arreduction figure can be redied upon to the jet make

BUILDING AVIATION PROGRESS SINCE 1922 Auroraft . Power Plents . Avlores Ryan Aeronauticel Company, San Diego, Calif



# Educated Officer

Workstring & D. C. Western Stern Side - Flores National Science States Pages 10 4-2001

AVIATION WEEK

Surgery Office I am for Toronto General Subsections

Mail AT No. 17

----Preject Stratescene Bayesis San Date PRICES BASE II SOUTH A THE PARTY NAMED AND ADDRESS OF Bills I May James & Long ADDY AND ENGINEER PROPERTY OF THE PARTY IS NOT THE PARTY IN THE PARTY ......

Charles a law state many man OUTSIAND IN LIFE SAME SIDE

SAN PRANCES SCHOOL PROCESS

PROTEST ASSESSED. 1 5 Advan-PROTEST EXCEPTS 1 5 Atoms CHISCASSIA AMERICAN T. J. Livey Summer Atlantic Traffic Septimes Sale lifting fores of Lightweight Fighters A DEATH of a financial and the Commentation and analysis accom-

referring all Cambo bear System. Polery Speedup Administration Breided on Joutelle Administration Bridge of Stands Doyth Faseh Foreign Firing Lacel Lerves Squipment Subbassis Grance (3) William

ATZ Silling Lightperight Flybture Music Tracking Comers Comme Sety 'Cleavey' of Sen Comme to York Sed Committee Firetre Proposed for Ant Sah Sale Surren Engineer Bayers Cabil Legister on Belefica When Dhan

notes we may neckles briddigence Without Londonkin ...... FI

FRAME Contracted native of the Moon is broade to make 750 of of the et Melburra Reach Ay Fonce Munic Training Centes Potent AFR, Fig.

Manhor at AST and AST

#### EDITORIAL

#### Intelligence Without Leadership

not decode. In fact, of a concernal that pay intelligence military statement on both assessment handred him women's

totalliness on the modellin and extentions of one

he one promotered time of solitory strings; presented in the medium, in the deceasement on any of the office of the control of the solitory, in the solitor is the solitor of the solitory of

When USAY and New pulsas began fighting somera.

When USAY and New pulsas began fighting surhous.

Soot the Kerses here against heavy solid surhous.

Soot the Kerses wer, there has here a storally dress of some propose of the vot boars of the propose of the vot boars of the propose of the vot boars of the legal offers to develop a seen and the propose of the vot boars of the legal offers to develop a seen as 1490, there were public deploys at Fings menty and tombton and appearant Reference to the self-lower some public deposits and just the development of great helicoports and just many public deposits and public deposits and public deposits and public development of great helicoports and just many public deposits and public deposits an

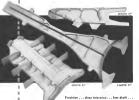
the class of extending the class proposed into space to the best of the secretificting may be offence on the growth of Scott training weight free one technopaged suppose, now a state-off best of the proposed supposed to the second state of the contraining the second of the state of the contraining the second of the second state of the second sta

As long an a 1974 the President Delene Seen try Chaire J. Witten as "perhaps powling" ree Seen try Chaire J. Witten as "perhaps powling ree Seen trees as "head bell periodypes," once though the five publish or homomers of 41 for 68 places. It was Mr. Wilten risk, in the spring of 1975, first seas and correct firms the American pought the types and ensystetics of new Second fighten and homotous that the publishy new American can be million of Radian publishy new American control of the million of Radian publishy new American control of the million of Radian publishy new American control of the million of Radian publishy new American control of the million of Radian published to the million of the million of the million of Radian published to the million of the million of the million of Radian published to the million of the million of Radian published to the million of the million of Radian published to the million of the million of Radian published the million of the million of Radian published the million of the million of Radian published the million of the

The county counted continue to arrevise as world's leater as face of the Community challenge out leadership that has the rategety and coungs to up to the gran facts provided by our jet ellipseup or up to the gran facts provided by our jet ellipseup or



# PRECISION FORGINGS By WYMAN-GORDON



midraft — these are relative terms and considerable control to his hor control between they have been locately used. Class tolerances on large forgilargy have been pleasemed by Wyman. Gordan over the years. The degree of precision which is practical now becomes a neutrino of economics.

The forgings illustrated are typical of Wyman-Gordon close tolerance forgings that have been produced in quantity. In solving problems of tolerances, design and metallurgical quality, there is no substitute for Wyman-Gardon experience.

## WYMAN-GORDON COMPANY

Enclosed 1883

FOREINES OF ALUMINUM + MAGNESIUM + STEEL + TITANIUM

WORCESTER 1, MASSACHUSETTS

#### WHO'S WHERE

In the Front Office

Mend E. Seguine, Special of the
Mend E. Seguine, Special of the
Management of the State Corp.

Security of the Management of the State
State State State of the Management of Parad

State State State State of State
Control Lot State State of State
State State State State State of State
State State State State State State
State State State State State
State State State State
State State State State
State State State State
State State State State
State State State State
State State State
State State State
State State State
State State State
State State State
State State State
State State State
State State State
State State State
State State State
State State State
State State State
State State State
State State State
State State State
State State State
State State State
State State State
State State State
State State State
State State State
State State State
State State
State State State
State State State
State State State
State State State
State State State
State State State
State State State
State State State
State State State
State State State
State State State
State State State
State State State
State State State
State State State
State State State
State State State
State State State
State State State
State State State
State State State
State State State
State State State
State State State
State State State
State State State
State State State
State State State
State State State
State State State
State State State
State State State
State State State
State State State
State State State
State State State
State State State
State State State
State State State
State State State
State State State
State State State
State State State
State State State
State State State
State State State
State State State
State State State
State State State
State State

segment of power desirates Conmoney of the Contransport of the Con
transport of the Con
part I hadron on product risk spirat

of the Con
part I hadron of the Con
transport of Con
Con
Total C

Honors and Elections

De Ciffed C Freez and Ges. Loca II
Suddeth in recept location freeds or
Legislating depositions the treatment
Con Jones II Booking July Gen 33
but final, and data William Topola
(ISA) are recent sends the possional
sends are recently such data possional
sends are recently such as the possional
sends are recently as the control of the
of a sparing of the first the recept one
of a sparing of the first the recept of

#### Changes

to viriginate di, anni Jane J. 100. Andyrmany, principal register in casale and declaration of software of Chen Copy, dear Debaid, Cally J. Dece semanty. All Copy And Chen Copy, declarating declarat

Indistruct Soles Depotacion Libb Ford Glass Co. Tolledo Olive

## INDUSTRY OBSERVER

Lockbord, Field Figur and the recommendation sorters (AW Out E. p. 18), and be used in the exposures of an Branch and Development Community Billiams Mende Agousty builded by May Give Branch A Schwere or Lie Anglein. Those are the first two May Equation the Agousty builded by the Comparison with the Rance Woodrafge Carp, which has had not according to the Community of the Rance Woodrafge Carp, which has had not an exportance out the Community and Tour and Martin Titles helified install programs.

the various is unitine primate acceptant in territories a space region. Acceptant controlled in Jones and to accept purpose as observed for riscatty problem.

P. W. max or W. S. H. A. depended howher competition between North August and Augus

by Peccest Corrert Affer and father Marins Ditan intercentionatal heliaforestable test stands cost in the neighborhood of \$2 suffices words to fee. Just 19 years ago, cent estimates of about \$3 in affers per DEM took resent were channed by Aran Ordanece offeren in advisorables.

• Wright for a British attempt to posit the afficial bouldes model speed second to 1.500 regio with an areproded stresses of the Fairer PDL stresses place. Peter Vivia, some pilet who not the potent 3,832 mph stread as the Debts would pilot the suprood vision.
• Among the "might himshour" modelets on a symposial for a three-steps.

erth at Pelesteri, 1995. Proposel called for these standard reclear relationta Markoshid (Value, a second-stage Amoust Another and a thand-stage Decrea solid propellate model.

• Codyst temperature or Concur 9 166 has been contrased as 65 000 may using sixtuo and suggest at invasional site gravels made of stretched aboutton contrarie. Secretari 101 with electrical conductors. Secretaries 101.

 Missespella-Bennyuff, Merco in, Cell, Incells is possing void on ASBCC Application-size armidic Models in contribute a solid propellist installment impediate that in first through the six for a quarrierable range, then eath write where electric process, torquide in directal by housing do let in the target.

h sics.

P Terror's reclet powered traget drose has been troubled by pitchep at the measure of separation from the mother plane.



## HOW THE SILICONIES MANY HELPED...

#### LIGHT UP THE LIFE OF A DOUBLE-DECKED COMMUTER

Genter essufiet for consentrer , , and furnished afficiency for softwarf in those should dischail for the softwarf of the softwarf of the softwarf for the softwarf for the softwarf for the softwarf for the softwarf of the

translating resis. Elicone shouling under temperatures and leads that house, down other arealising naturals. The result is a unit on larger than those Theory Universitable in indicated of CCC. Supervisible translation problem Stitemen permit market rain for epoch plots — or greater equally for a debt beat. To daten used information, write for "Closs III Intuitions with United Control," John to Hardson, with United Conposes," John to Hardson, with United States Direct, United Conposition, 30 East State Direct, New York 17, N. X.



#### Washington Roundup

#### New Soviet Surprise?

are of the Bulletin resolution, a fact for agrees that a silve yither has fore; an other section of the continual of the property of the prope

#### Moon Over Congverol

mentance, otherwise desired in death's resiste. Med MA (2), 20, 124.

MA (2), 3, 20, 42.

Manus ments out lot such the result not special soften ments out lot such the result not special sort of the second control section of the section of the second control section of the second control section of the se

#### Quaries on the Spot

Deput Delivers Secretary Densily A. Quarter of the presents fragge of the Frent Norman Energy Scholaron Secretary Se

## Administration: GOP Challengers

Two of the fivee Rayabban members of the Scalis-Terpanders Subcommittees which policide will be the property of the Congress scenarious in finance, are publicly parenting the advantageous's statude forward within and member development. They are Sea Indigen ON EL, also realized generate, member of appropriate of Controller and No. Kitch Physiches (September 20), and No. Kitch Physiches (September 20), and the Controller and Controller and September 20), and the Controller and September 20). The Controller and September 20), and the Controller and September 20), and the September 20), and the September 20). The controller and September 20), and the colorate properties of the September 20). The Controller and September 20), and the September 20). The September 20) is the September 20) in the September 20), and the September 20) is the September 20). The September 20) is the September 20) in the Sept

and the second s

#### Watchful Eye Describer of the Robert Trans Resolvental B. Mc

#### Discount Reversal

Address should referred decapied the 100% atoms another mode WV Or 27 p. 17 beer reserved and the second state of the second s



#### Mackup Shown of Grumman's New Observation Plane For Army, Marines



## Project Stratoscope Reveals Sun Data

Former more and consists would include the study of planetury atmosphere, satellite observatories, By Forst Clock A Strategore III debt with a 16 to

francis a Constitute

body manufactured to 1993 on from



Stratescope Timetable

#### USAF Research Cuts Are Deep;

Cambridge, Rome, OSB Hard Hit

Eddards of Cade

though Debugg took story to have the . Combridge Research Course has an

# Hour Air Development Center has

#### Uncentracted Presents

#### Congressmen Fear Second Soviet 'First' home. Notice the chartest in solut, record attitude a that the assure to

Br Kitherine Ishmen Washington-Departs for preferst-

# Establishment of an Atheric Com-

Individual Screting

Declarage that the server does not



Jupiter Night Firing Army Indian intermediate range believe sende as bunched at Cape Consent, Fig. at \* NATO-ride condessent elevine a mente is not bracket for fact have

KHATON WEEK, Ownley 28, 1957

See Baker Bergage (D Man.), room relation in the series no States See for all Photos Charles on with a see a second of the formation of the formation

Pales her reliade a medified version

\* Her Thomas Love O'l history when

Administration Divided on Sputnik

Atomic Benth Bomb

JAW Nov. 5 to 770 with on moder

## British Coin Initial Win Over II S. In ICAO Navigational Aid Dispute

Manhad-Bresh love was the first . • Define evaluar publicas and those

the entry problem lacks/me such

#### Familie Hits 4 000 mi. Altitude Windowskia, 44 least one and wednish two Air Flowe Family bellium branched

Dide was recorded to a hitle over \$10 we allabode but the nather a beloved

4 Had Fee Old 11-EeRcon patroni from to loss longeration in the trape-

Council Milk Co., belloon contentos. Sonor interned Oct. 25. Arcustoner







## T-38 Model Shows Low Drag Wing Fairing

Ulfillion Fenn Freteren

Tests Persons Man purpose of these perteader

TECHNICIANS done should for nation and from all the world below a lost own business.

Northern T.M. augments from their sounds to a common effective term are accommon to a following falses of



#### Holaday Speech Describes Shift To Solid Propellants for Missiles

Bookun Ceb. Utab- Lawr open on performing and voters of analysis sequent cars, Cant - Large open on performers and variety of applica-

New Thinkel Steat

Orien Sec

Electra Proposed cuts on he related in rating last. For Anti-Sub Role

obtains in the new turns. Throbot there is reliablely account of \$7.5% for



Supersonic Torget Missile



#### breaking the barriers

VACCUM MELTING

EV-HAVES



For Canadair...The Sky is NOT The Limit! What we have learned as the air-we apply electronics, digital and auxloage electronic

vehicles: they are a solution to an unique amblem of transport over trackless terrain

who in many fields such as meanth do-

on the ground. See these snowmobile-type computing, structural and mechanical testing in all a service designed to offer fresh irropetus for progress.

a Charles until a specime transport Characterist observation bloom a \* All of cockpit to a helder leading

Varia Airlines Orders Two Caravelle lets

Employment Lag Wadanton bandt salarty on Differe ratherly returned ado from

Sidewinder's Scanner Shown National and sucked and the principle principle and an early decided and the second

Proceeding conductions of 10 Merces - transportation on to 1008 and more

News Digest Region Tailth will now be built to

Fast Germany under Russian Joseph.

Renies enveraged provincer In

#### ALR TRANSPORT

#### Summer Atlantic Traffic Continues Gain

Torrist resonances total 369,000, accounting for most of second 21% June/Sentember increase

test. Her much now become the

Afterior called up a total of \$60,000 were least by \$200.00

Worthward troffe, hearted by

party lefeful to branco." About

North Atlantic Scheduled Parrenners June Sent 1957 from 1666, but provided 74.745 or on smarter of the over sold chard \$1.0

in 1950, according to Trans Wards.

Other Bessitts

De Lores Electric Full

The Sweet stores had DC 7Cs in

agentus dereg the moreor

After 34 Day Period



#### Popularity of Centerline System Fetablished in Air Force Tests

Br. L. L. Dete

It could a volcairring of filters

Los Angeles Airport Expansion Planned

Electro Order

Ther he Embre has not been a

New Bilateral Spurs Mexican Economy

Where shoes that loose the Mexican Token the this of moder is hence neste with Western Ast Lone, Western would had of this and authority for

Ministra will show the Change

Exection Clearence

Simelair Buys Culfstream

ANATION WELL Dealer St. 1987

#### National Gets Recommendation For Dollas to West Coast Route

Strong Comporition

France Rests

Comet Indemnity

At person, National Dieles and

## Examiner Approves

Permit for Oantas

#### Pan American Renews Great Circle Bid

Pon American Rehamat





Wakington, For American World, the Australian acting Greater to the stuffe of the true current by surveyed





2-in-1 aircraft the new

#### DOUBLE-DECK JET-PROP VANGUARD

75, 86, 65, 100 PASSENDERS.



ESSETTIONALLY SAVER PARK-ARGONAL



to the Orest necessary become

House Group Pushes Investigation of CAR Wedneston-The special Commons



Airline Reorganizes Coordinating Council New York-Trees World Authors



COOP IES

## ROLLS-ROYCE GAS TURBINES

short, medium and

long range airliners



BY PASS TURBO HT Rolls-Royce have over 3,000,000 hours

experience in the operation of gas turbine mounts in scholulal nights service.

#### SHOPTLINES

P. Denn, Air Lines of Spain has doubled at African property for Madual it Subsect and Women Addison for

\* British Oveness Airways Coap will beam dish first class Double DC-70

P Civil Assessables Administration In-

Plea Assertes World Arrent has

## AIDLINE ORSEDVED

& Northwest Archaer will convenient on its interestantal made terrane-

that would be introduce and or both mate agreems but is now enigered to two different bose where to be sellent a condition and analysis and make MCongress stocks of 80 part of 11 desports translate review but new force

\*Civil Assumption Athanistration will audottile bedly-ended study of

work at Winhaugton National August with my CAA pilets using an 1988-1 and UVIF communication. Tican, remaining and distance memorial Plackhool Assort a maker Flores assores as longs of treatment of

\* Courtel Artimes President David H. Baher is now recovering close to his



#### THE REVOLUTIONARY BRISTOL PROTEUS

Most powerful engine in airline service, cuts fuel costs, solves noise problem



Strinting placetor Principalities principle has been present by achievable principalities. Presenting the Strintin Sciences taday, the Principal delivers greater homeprimar blass my oblass region in alriface servicements with a specified habit consumption of only 0.446 its, eligibles, in by far the mond sementalist gas faithful in object facilities are principal.

#### Proneer Free-Tur

US ariston experts who recently entered Bristo Bristons were greatly approved by the quest, and all reand performance of her fine. Protein regime. The regime's remarkable femiths result of an interiority enterering con-

developed by Brussl

In the Protess ragins, the compresser and project

machined consection between the two systems, only a numerical gas essent.

Variations in peopellar speed impose no limits on the output of the component and its nation. The gas-

world's Lorgest, Pasient, Qurelest

Jot-Prop Artiner

Demonstrates Proteus Superiority

The Protects is a covalationary power and for recolationary times R is a discussive identification of Perston's engineering lendership, one of a king line of width function increasures. The Protects constrain

great power with sericulous coopering, recovering, and low stone lovels.

The Presson powers the Belstat Britanus—wealth largest Baston, question jurgoup sithner—dyeng col-20 000 colors a wealt on BoAC reason transplant both the world. The reliability of the Protone has been recovered to demonstrated by the sector and pre-

PRICTO!

Aero-Engines





## Sifting Begins of Lightweight Fighters

By Dood A. Anderson

Backage, France - SIANT bandspare

town in whose diseased sensitive of the

NOTO high filterage in control of the

NOTO high filterage in control of the

NOTO high filterage in control of the

sometimes in the content NATO corns

and the control of the control of the

sometimes in the content NATO corns

All low text on flarge modelment of

the sometime in content of the

thank TANA was concerned to the

the sometime in content of the

the sometime in content of the

the sometimes of the control

the control of the control

the contr

service one operately part that that requirement. The best weight or requirement. The best weight of the best weight of the part of the best way to be the part of conforming references; the salt production of the December of the New York of the Section of the

and, Structurally of teen large series of alsonation homeoconic fabricate tapered using sloss and automorph





MARROR of This COS (to She has been been a regard for real this Non-thirtee left, show) has resel codyd, methors per memoria on riplical growth. East of this Ogita, shews) in header to conceanching produced changes under on horizontal artiscs. ANALYSIS WIDE, Onches St. 1997.



The biggest news in fasteners comes from Wingspan is the soulest of the entres of 22.5 ft Overall legate is 36.9. A close to the meable move of the

Wise Construction









SEPERMENT them received showing all Broads Time. Vested stade under more his force supposed on protection, speed broken added

AVAILON WEEK, Owner 26, 1997

Yea'M see this need quite s lot by our permakers. B's the combined application of susquention and engineering tall that create in a better way or settled for subsing a produce—the the special inset pre-chamber we thoughed for controlled accomplisors withing of transcenture of the second of the second of the second Yea, six, we operate on the principle that

the quality of the job and, at the same time, leaven production time and cost. In come restance, we have sheet production time as half on certain manufacturing operations of the \$27. Of crosse, it takes shall,

experience . . . and expensity: Our primitions have a list of each.



7401 SOUTH CICERO AVENUE . CHICAGO 29, ILLINOI



TAON measure trainer in development of required foregr. Wingston in 22.5 ft., would longly 35.7 ft., height in these parts of thinds 12.3 ft.

Assence pare on the Theor methods no ARC-34 UBF and ARC-34 UBF with an APA 68 for 64 Per and corder operations in MSQ1 set constang of on APA 50 and APA VIII, a Bear NA AN 58 redoccompan or, of decreal, a Manuscon cont. on ABN 21 Teem consequent or a GTA-122 per teem minute, a tolerused and for operation of the APA VIII teem consequenced or a GTA-122 per teem minute, a tolerused gas of a Green Type 50 green and the APA VIII of the APA VIII of

Tom Armonical Standard asserted on the Time of fore Energing 50 cell marking gran, but these may be supposed with twen the fore the transport of the forest may be supposed with twen the forest market 12 modern each through the most fit 12 modern each through the control to the forest through through the forest through the forest through the forest throu

seried serieles. Lide after mitten in the competitive for Tain has two oddinional configurations effect in Early photo-occurrences centre in a coldinal series as well as a consideral series as the configuration of the coldinal series and filled massed with the left associated with the soft associated with the soft as a coldinal series of the coldinal series of the

stread the Oxphess 6, a deciried Juplicus 3 with reduced fuel commungion.

Bergoet saws the goodection sugition of decigned animal the Oxphess 17, and into the company but meeted not the testion on two sector with the Oxphess Li, used either for trassing or for other

Descend Etenderd

The Etenderd ("Fing" or "Bus sense, now numbering eight dal AVANION WEEK, October 28, 1857 based on the escalularing genisity of the company's highly successful per chanting failed failers, the same recolving the same failers, the same recolvsistent, in an explosit, aspect with real and across a being same per a perpendicular the same possibility of programme of the across was possibility commented in Assistant Wars (DA: 33. Evaluates) 4 and 6 are from an other

Existing the said of one fixing an the competition. Both were designed to a making specification, the 4 to a Founda southern specification, the 4 to a Founda southern specification, and the Foundate 4 to provide by the Sacral Deposit 3 Disserted by the Sacral Sacra Sacral Sacral Sacral Sacral Sacral Sacral Sacral Sacral Sacral S

alentral Aree Rule Followed

clientises to assist! should also room must be responsively being sade in recessor as the Euroclar's hong dechoped for the Prench Nery. An assistable facelogs in the insper supervised. Eurologia these provisions of the same state of the same and photo assistances are now made on and photo assistances are now made on and photo assistances are now made on the Euroclar's 4 work Captern 12. Wengpor of the Euroclar's 4 work Captern 12. coverals begin to 795 it and size and size of the Euroclar's 4 was the coverage of the Eur

are not available.

Landaug gere tile pressures ser hagly or of the few cetters of 40 pc. Trend of the transport of 100 ft. wide and wheelther is 120 ft.

Codepit of this singline is not pers remed, but is necessiblemed A com-







PLATURES:

Simple, reliable immediate aboustry on Hew salars of choice amounter and speed lighten for other control of declara.

Bigman light to infrare broader of fool is an overed december of the light control december places are past in the selection.

Meaning outside the following past is the poly.

a Menty mining betwee year is the entymoving persons relays or mechanical entities.

With the complete data Euro 100,000 Alto ovulable: Four Rate Indicatant and Recorders, Free

Maugh Domestine Course

#### A NEW CONCERT FOR HEAT TRAINING

Cessna's T-37 now in operation fits the new concept in USAF training: an easier transition into iets for Air Force Cadets

Side-by-side seating. combat flight characteristics

with handling ease result in substantial training savings.



Disedent 4 is Different

Directed 6 or made a different un-

deprenature of 1959, for Bastol Secutispecial control of the feeding

# PRODUCTS

terrors communications consist in parameter and landered residence boding reperies dislated united and members received in ANG upon 22 thre 4/9, he secretary with

FUCTEONIC HOOKUP WIRE... Seling involved above paged spages engineer with hypinane a simulated

ANTON DEVIDE CARLE Many Research and Manhor Resident Electrical Colds Some "SDFUSE" ware, a specific from comments, supersed for create in

MEATING CABLE ... - at a cital draws contains and businessed contains for apprehen at

GLASS A ASSESTED INSURATED HEATING CARLE ... and another and builded shield be asseted but to asset they are before and by stome money for \$500. CUSTOM CONSTRUCTED CONTROL CARLES AND

THERMOCOUPLE-WIPE CARLES The second state of the second second second second state of the second state of the second state of the second state of the second sec

IDEADERSTANT AND HIGH TEMPERATURE RESISTANT CARLE ... and the second s for direct fire for deleter clouds and for one in termentalism on to 400-2. THERMOCOURSE WIRE AND EXTENSION WIRE ...

is immorarished, apper-centeries and chemelaboral or ML specifi-RESISTANCE FLEMENT AND UNITS ... Consequent fortible heating absence and with for less westings appliances as hearing made, seedors, carling mans, trys, were marking machines, six bradeling of schools or they or in contentant of hos-

ENGINEERING COMPANY





# Remmert-Werner... **Big-Change Artists**

Over 200 aircraft conversions . . . thousands of cornorate planes maintained and serviced . . . millions of gallons of Shell Aviation Fuel sold to satisfied customers... that's Remmert-Werner's 10-year record!

Plants. Bill Recement met the caravan, Utiliging at a complete machine, woodworkfield I seed to Bill. Two seeded had is these were the three 15,000 and an

plus occurrenced and regions on-

set. A libell man cootted some

If their first 16 months at Page while to America's even increasing











It pays to be a Shell Aviation Dealer -and the Shell office nearest you will be glad to show you sely



# EASTENED DOORLEM-

#### Miniature right-angle stop nut for cover hold-down saves snace and weight on avionic unit

the southern A manuface, right-angle basket not-

and efficiently on the right made hooked pur species ----- WAIL COUPON FOR DALLAN REPORTATION

Proc. H49-5559, Confr. Step Not Corporation of Asserts

From \$5 cal market trans and 1 200 Orahem 12 is 280 ft, evend length

of the test resistence which name

Main which which as the fact In addition the control has been

The Recedes: ("Tough Goy" in Lemms show) is workable the only are



fog-free visibility with

Sieviacote

The pleatic capage of Conveir's new supersonic all weather intercentor the E-1064 - is neved an electronistic books d for free surface





region. Cheedi condigencian acquisis that place cell opinion in Main I stage. Set a no consolent legar than SED traces acces operational opposed. Considerable soluted and the hading single should present better sense. Entitled as my opinion framelogs have been demonstrated. Merger With Monroes

"""

Merger With Monroes

Planned by Litton

nondrout of the concept leagues to red. This applier, excepted orth cide innexed of shock, can concently hake of dism our native that the support the regist of the glosse. Shall present on the primaries at low of 14 years. Let used our the conposed, and see of the place header that they are the control of the proofs, and see of the place benefits that they are the place of the control of the place of the place that they are the place of the place and a high three place can present at and a high three place can present

n 13,575 fb. and the weight corp about 9,612 fb. AVANION WEEK October 25 1857



for and these for the property are noted on special Crees weight on Feldon meeting are noted on special Crees weight on the forest property and the creek property and the creek many pink to professional and one nader seek many pink to professional creek many pink to professional creek

vision history can be tald in numbers, and 800 seams decisined to write a page of in cost. In 1990, Content 1900, the worth's literat pithens, will be in serious. 160 will conser a 161 step, exquising 16 fore-class as followed in the serious and the serious spacecoast brancy and supercolonistic conserved upon with opening exceeds a procedural process. Power will be loar CI-460's—Garcent Electric's speciation technical.

GENTLE BUTTELL'S SPECTACULAR SURROUTTS

COMMERCIAL VERSION (right)

Power will be loar CI-80%—General Electric's speciación harbopt. CI-805 a n similable stator, imple retor engine in the 10,000 pound finosi clien III)—in famous military counterpart—drives accerdi at twee the speed of sound!

UAP components are supplied to GII for both the CL-106 and FPA, is install below FPAs of therefore the sea shallows becomes the GII nathogsts were designed for a higher feature-to-copial storo their site place of the season for contract of the season of the season storogates of the season of the

scerce. Were today for enlargatum.



88 Million Engine Orde Placed by West Germans Greek Espec Ltd. Thomas, O ber record on orde someoning \$4,600,000 bear its West German Force for pure Oncode I employ pers The ceder in the Low for up to consense with the ceder of

Magnetic Tape Recorder Ordered for Navy Planes Bassas of Armantas associal \$1,580,000 control to Antonomic ferous of North Assertic Amite

Bassan of Arramatics associated and account of North Associated As



Pressure Suit

vocazet mone ac cas on virtues vovocazet possum met that postocis le (you \$7 m; distale mashed w Leb Industries, low, cleanless developed 1 An Ferre AEDC (AW Oct 14, p. 82)



ACTIANY ACTIVATION
PROVIDE PERSONNEL PROPERTIANY DESIRES OF PROVIDENCE AND PROJECT AND PROPERTIES AND PROVIDE AND PROVIDE AND PROPERTIES AND PROPERTY AND



a famous family of aircraft coordials since 1929
UNITED AIRCRAFT PRODUCTS, INC.
1116 BOLANDER AVENUE, DAYTON, OHIO







#### the TECO PLAN cuts seat-buying time and costs for leading Airlines and Aircraft Companies!



the TECO PLAN there's nothing new to leave ... but rather, a way for you to do less and A 1800 representation will be glad to point out the

With seiling receivments for both general and unders you will received



TO CANADA Parkers & Books Expressive from 15th Montred a MITWEST & STATUT G. E. Harry & Co. Worlds

#### Pussian Scientist Wents Students Assigned Earlier to Engineer Work

Pantamon Object



AVAILON WEEK Garden 28, 1707

ded under search the one one and critical the impoten-

throat charder to early build). Now your prophate yours at



Dual orifice fuel nozzles control the flow of fuel to the combustion chamber of a jet—hot as a blast furnace! The advanced design and precision manufacture of these nozzles provide optimum engine combustion efficiency. Exc.Gel-O builds such fuel nozzles...along with blades, rotors, actuators, valves, fuel controls, parts and assemblies,



Aircraft Division

MAY AND MINESTED TO MANUEL PROTECTION OF SHEEP WITH PARTY AND ADDRESSES BY THE PERTY OF

5

much test in process proteined gath a service and carbon of many or a service and carbon of many or a service and carbon of many or a service and a service as a service and a service and a service as a service and a service as a service and a service and

subjects which here which significance in the aread function.

Old Concept
Pupples, mortal that has ident are set seried by certain functions of the Levengual Publicational Association or the series of the Concept Publication and advantage or the series of the series

problems that of being solved be no. Difficum protests at the Mission Proceeds and Technical busidest extended and Technical busidest as the process of the solved or protested problems on trended "Madeline Organical state amount of some them of them technical state and the solved of some them of makine next of some them of makine next of some them of makine next solved with bloom brought to disclosure bloom distinguished and the solved of the sol

Pagados custoded from adventous of the pagados of the force organization of the force or the constitution of the force organization of the force of

MESSANCE : DEPENDENT : A

d usin

## Kentucky Windage at 650 MPH?

"Keezecky weedegy" is fine for an obtaine against abooter at 60 yards. But how do you compute cross-wind allowance for high-

The completion of fining table request for cross-word conventions are special for increased conventions and conventions are special for the convention of the special salities of Tablebe Anneal Congessor, a devision of Water Compensor, and Anneal Anneal Compensor, and Anneal Compensor of the conference of the convention of the Compensor of the C

The deage of this buildings date needs one of many examples of Tiethber's expelicity in designing, developing and ensurance needs made of the Tiethber projects contain party man system for jet investes, boundary larger control systems, non-when assessing mechanisms, sullight relivaling unit, everyor cell for databat when the control of the cont

The bled offices a complete engineering program to include engineering survium, parts manufacturing, tooling and production to it

# THIFBLOT

MUNICIPAL AUTORS, HARTSHEED W. VI.

.



Missile Oven Creates High Temperatures

Test Chamber Houses Nove Section of E-101

#### Computation Service Offered to Industry



#### AGAIN! ANOTHER BENDIX FIRST! NEW COMBINATION FILLER-BUILD UP VALVE SAVES SPACE! SAVES WEIGHT!

THE ARCI province input express consenter.

Pioneer-Central Division

make characters filter codes

CREED VOLLE MICCH E

# Precision Weldments in Stainless

EROM THE LEADING BRODUCER

BROCEAM WITH

# and High-Alloy Steels and Titanium

OF JET-ENGINE PARTS

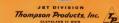
Webling of all types on associal stocks and allows can be contracted for medicing of an types of specia Our experience in foreign welches storm-reference and best-transper normalishing to one more for one or marries recovery. Debourses sell be recovery

months accustomed to closest televisors: arranged allows and designs, and

Let the let Dearwo expolement over our mentocoled mustle conducmade to wait your production achedule. Write today for a Jet Division



SEND FOR BOOKLET AW-757













VENDON WITH CHARLE SE 1917



You have the superment often these days in early neers and production even shift their thinking to meet For the past 10 years "ultra-reliability" has been the

and carthods that now place us in a leading position to

Tec's "akra-reliability" - and it is record in demon-Take our slip ring assemblies, for example.



for the missile are.

2. Ukra-editible electrical performance, lowest nowe breefs come permit the one of pure 14% gold and has often untend

3 Michaeler book" of one to wire somes position pro-

shelf - now . . . or others years from now! Electro country. Write to.









# SPECIFY LINDE Sannhire

LINDE Semebles is ... Transparent, single organi, con-

LINDE Supphire has ...

Special shapes - to reder

For more information about Loop Sanakire . . . Work "Creatale Dece-AW-14," Love Congany, Deputy of Unity Codeds Companies, 30



Colores Trade and Trade Endode an embracial polymeric of Estin Certific Convertes.



PRODUCTION PRIECING



Pacific Assessive well be self 250 ero. Pacific Assumetry well for all 150 era



# facts about Flexflyte®

that will help you solve your gircroft ducting problems

make a commence of the street of A lightworth annipped during hendir? What shoet installation? What ere its applications? Pleafate is decirated for one with Firefine is quickly, couly instated manufactures and service cleage It is also everlable with specul salarging or redocing

It will take tight tasse at any near up to 150° surhout hardends, either completed rection tra. No obove or fitting are galic or polyhedrid What ere its temporalize for unusual equilirations? Yes, in many special shapes, fab-From retrus 1 20°F, tools, 650°F What about Burfute's It is highly constant to abration name the shrusion resignator of Henr con I musice save that Pleas

for and and and are self-With its continue your secure. Flendyte has encopensably bigh reets Our entities; your requirefor you. Write Dept 200

Supressed actionly to Arm Engineering In and Aircopely

∠lexible Tubing GULFORD, CONNECTICUT . LOS ANGELES 64, CALIFORNIA

In 2 flame resilement



ion IRAN and modificative sock as profession. Congress call benift as odds from recent bence of USAI flower recent bence of USAI flower concurs for modification and activated back of barriers of alternative pass Fine protes of alternative statement of 100°. Makes, fenerative, in the modification and congress of a medium to the confidence of the medium confidence of the modification o



genter in cocusion traintance and sufficient religiosal, pleased and element of proportion betterform predicts and exactly the proportion products appropriate to the product of product mixed field recer it will per alternation, filternation and cooper alternation, filternation and cooper



the presence of host in e oncie washer how and statist to feen permisent out through our culturge and hove their their milt. Two dash minger are thou should as network hyponist be sprendly peckaged, askered it most to dain and specified upon the maked specified upon their maked specified to the minds. I be observe and noutridue

Doughe Arousti Co. will start cust structure of a [20,000 sq. ft. pubbias than control beliefung on a set; in fix-yearst of Los Angeles halternational Artisest. Section will home company pubbications with our surrouls, training restrictions of other work for secretary.

expansed at despensed feedbases.

According to AEC appropriations recent Exertin's mether mether that his dawn at Exception country behavior, and Francis Control, and Partir So Petrol, and Control, and the Section of the Section of Section 1 and Section 100 and Section

Lyonalog Div., Aco Mb Corp. Smittod, Ceen a separating secret bands of exploses with the card of lecensed prediction of the R 1553 and R1500 pates copies. However firm may be able to other some rain had attent also predictions for in 153 and



Utility Airline seat or hight weight netroll and was deeper high dearth brouperstein of local or an over people rooter. Sent things o

and the manage com



Another missile problem solved by Whittaker:

## fuel tank pressure limited to

25 ±1.5 P.S.I.G.

THE NEW WHITTAETH PRESIDES ACTUARED REGULATION (ANY)—designed to regulate and regulate and regulate land regulate, land presents of a combined without

to ground and presenting his store of the down of before in vary freez zero in 15 fbs. per notes which is to vary freez zero in 15 fbs. per notes which the control beforease absence before. This down exhalse two reducing stages to fbs., and is controlled by a semantially leasted notes like. This cayolic the actual prosume in the programme in leading from the aux to the thin the common leading from the aux to the thin the control of the leaster than the control of the least the control of the

First 1821 is now in production, and with each least ten either scheduler, but with each least ten nethrigs changed to govern during which are produced as the case of the reasy other applications. This is not to the tend for reasy other applications. This is not to the hardy winting problems of all brinds that the Whittskier has noticed and of all brinds that Whittskier has noticed and other revery dust "Whittskier has not written and other revery dust" Whittskier has not written and the same who was the written of the same and the same with the same way to be supported to the same with the same way to be supported to the same way

Partermatica
Theorems Control of Fig. 100 (100 Fig. 100 F

ASIA Convince to the Control of the

Mrs. Jl. Whicheler Co. Lab. 2010 N. Chille Ave. Lin Angelon in Culd. Chaptering. Floate med on borther information on the Whitman Printed Action of Republing Value 7/N 12020.

Project information

Total State



# AROUND THE WORLD WITH SIKORSKY HELICOPTERS









WORKAM WARRING — A day about of Hermann "the day," Whiteshe belongites the six the U.B. Case Burst dotablement at New Ochsens control wavelings to fullying benefit extens and moderal netterments in the lower Whostagus delice region and around New Culturas After the huminister series the Learning coasts further most. the behavior most arnormal is held as the current guide netterm work shows a netter of the learning of the control work of the the Hearlings of people were forms to unlike.







S.58c Land Marines

Making to behave the Adapter Amonth Course 26 method tempor on deck of 1756





These MODERN Recirculating Ball Units can help you...

# SOLVE ACTUATION and TOROUE PROBLEMS



Saginaw b/b Serves guaranteed 90% efficient -offer & major edventages for designers

friction coefficient than eliding ratings

Applicable to centern murbland and represented Transport or restrain high terraps bonds for more effectedly have been built from 3 leaker to 10 feet languilly have been built from a recent re-

Marriada Silvaniana an All and of this year or many behalis



Months on the Spline

# Turbojets Are Theoretically Capable of Mach 4 Speeds Clerked Object recess of the

Inndessets Though Counc. · High does counted by up well-

ELICUT MAPS NO

IN THE PART OF

FLIGHT MACH NO GEN SHIPLE IN PRIST MITS FORE IN:

ALEPTANE

INSTALLATION above a trainful of infer and otherst restons for Mask 4 beloach. It

PURTNER APPRINGN of a verific assesses lake true the metallities advants threat one the enter speed roage. Inlet shows here is of the extensel enoperoons type. Number

Types of Provereigness



# with Iron-Powder Electrodes

These bish-road electrodes are also contable

of the chemical costing provents underhead assolu-

Wate Day 2004 Harmorhitery Corn. Milwardon HARNISCHFEGER

ner and normity . . . discipates mostly revolds.

# WELDERS . ELECTRODES . POSTMONERS



MACA wheels helds would of Mack & Salvan. Model has more from valuble assessed

some current engines. Lan in possible. \* Turbuse ratio(-1,450) . Turbise reflet-1 3507
 Duchere rehand-1 3507 Townsenders Delticulture

THE state down Mark A light or Mark 2

fice. An units moved rolet course haddog. If spillage as a relement behind the

Solid Fuel Fueines Increase Reliability

About 130 of their lane econes

Titan Subcontract Canceled by Martin



# How to Choose the Right Constant-Speed Drive

General Electric angineer outlines method to help determine which constant-speed drive-shydroulis or air-turbine

-best suits requirements of particular aircraft By George A. Phillips, Monager

bab'es and Mahrasod elitracial as a ranges chaft.

by the electrical emission for exemple, 4. Canadar special requirements. To help second describe select the result is matched by a dryer which will

I fortifely elements thing continu

At any of the second se

region countries copylytical god theretal products and the same and the s

ethers dough street

9. Study broadery randitions and that within become a proportion Done against boundary conditions in . To send the sphere manufacturer clude the capit from the power plant, so this phase of the selection secures.

and other the pight other is chosen Completion the part to be and from









# IN AVIONIC EQUIPMENT, WHY LOAD ON EXTRA WEIGHT?

use Clifton Precision Size 8 Synchros WEIGHT 32 GRAMS





### TV May Provide Airliner Inspection a mark months with release match. But the sales or experience above on

. Tall did. Commy regarded one the . . Battern were. Covern reported on





MANDON WEEK OWNERS ON THE



# DOES YOUR INTERCOM HAVE "FAT" BETWEEN THE EARS?

Yourset the search; of today's and togaprow's super- in the infustry, ear augment your organization in acede let afecraft problems, intercons have undergone activing a wide mage of electronic problems,

extension enteres conductions to respect the "fat". Imprination inservity industry-that's the "Mile" A case in possi: Andrea encursh entireers have at Andrea a company known to all departments of dadesired a material improvement in intercom systems. frace for completes top level quality performance in embadying all factors ... weight, reliability, form registering and production of advanced electrons closics. factor, unsplinity, performance . . . for the military . Andrea has the resources and manpower to help you

SYSTEMS DIVISION

A Pioneer Name in Electronics-Reversity, Development, Production-Weapons Systems, Communications.

### SLOCK BLASKAM of a two courts, two country sixteens closed visual believing matel before such as an EFFA DEA Place Manager of

A Course will consider outsistant Wright of rames, 6.5 h. control







AVAILON WEEK, Outdoor 28, 1857



smaller. lighter, cooler Westinghouse transformers for each function of every

aircraft A-C system

The knowledge ments all enveronments, everload,



reclution of 450 hars works 42 lb.

# SHARD CENTER

Wilding Tourston Days Days Tours

cocc get made by the coupons during a construir voir della chila

h-CAA Beer Mary To Ready Reducterms water come you Araparent







## Analog Device For Helicopters



CONTRACTOR SAFEY COMMON TO SEE



# TO USE CLEVELAND

Over 175,000 pounds at take-off. less than 45' hours and 2000 miles later, over 125,000 pounds to land! Convair 880 jet transports will be using Cleveland Pneumatic AFROL landing gears.

Cleveland Pneumatic's design. test, and production facilities are at work now on landing scars for all three American jet transports-Boeing 707, Douglas DC-8, and Convais 880, Since 1926 Cleveland Presumatic has developed and built more landing years for more aircraft than any other manufacturer.

Put our experience and plant to work on your next aircraft project.

# PNEUMATIC GEAR

A 108 AT CLEVEL AND

offers mean benefits for qualified engineers-fiberal profesharing, good wages and frings benefits, stability assured BHEILINATIO Wate today auditing your conflictions

CLEVELAND PNEUMATIC



because was planting as planting as the color of the colo

### The bird watchers

recording telescopes developed by Perkin-Elmer

The "bealt" having he has bee frequent under togeness the amounts are the bear in him. O.O.O. region as bear within records after taken? To make these requestrated months as the field. Period librar disappeal and load as the field. Period librar disappeal and load associated to 200 - 200 and he had length sender as allowope reporturement with two sightless disappeals would not be a complete, and appealing model that leaves the proposition of the proposity model that leaves the part models. person of expressions queried in designing more and in the according front force program where measurements and control of the control of the



Powle in Flancon

salv andered by approvementally. From uses salatas, dated for motival year states are usual factories. On Solata, Cer., Meets, Ale, and Mensanophia, Mann Angalemen, will be tendeled as a Warbangton. D. C., to be full-by syndictions of Boston. Lie. or, Principally, Bertile, Menn., Self Lide Cen., Galland and

▶ Novel Stable Pletfermters gyrs stablished plattices two freedom? gene on ventional disentence and i his been developed by Spet Wright As Development Comtion board directional griwith spet man beenceful.



sight to one another, give what Spensity is "superceptants are unasteen involving inhoration and ultraffice highs." Readous drift tracks are quote it it day per hour is bioology and it highers per manufar should versical my unitness magnetic or versical slows, it is not because the person of the higher per manufar should be an higher tablescape pletthorn, suchular amphilian, wought only, 201

► Characterised Dermith - Précio Cope, moist fait à les los laux performa ag traffic curried evaluation program with sea own heads for some train. Comprise was not unlocked seeing those local in heritag ATC data procuring study programs under use. AW hopt © p. 29.

Maceners World Agency has ordered ordered Lause recovers from E Copy, College Pours, N. Y., Sternstott tou on new fort of Denglie DC-fix or Beering (1): Basell, light-regist Mo 54% Lause in decigned for cocking virillation for next for policy and copy service. 25 to.

exhated on new test stage trees completed at Eglin AFE, believed to the first of its type. Facultic saids provines for torting treest resolute



By Century Model 409
RECORDING



alone under the meat inferent conditions, expensively when space and single consideration and levels. It is a maintain, compact a unit incorporation, many features beautil before models. Beautil farthfully during accolorations and though account all 20 Get. In many and capacity which is impactably the levels of the second second second second second I liabilities at all helicopters and fundamental and committee.

Contury Electronics & Instruments, Inc.

### CONTRACT WAS SPRINGED BY SPRIN

Announcing



Two new

# Titanium alloys for high temperature

applications

MARKET MARKS AND A SUMMARY ADDRESSES AND ADD MOV 9 SALISM the first sector formation from the first of standard sectors.

Two new allows developed by Mahmay ago as a weblable sheet and

MALLORY MET BEALTHY WILL developed IN

SHARON

Morar States Ballatics Effects-

Million to 1000 Temperature

\* Breath, Radia advantar directors, vol. by restrict at W. Dustern N. Z.



Infrared Camera Detects Variation Of Temperature

bracker are commentative cool. Bully a versa betwee of arbeind comp. substate from source of right have glow toke outs file of February course to produce oboto-





Lycoming's T53





# PROVEN . . . IN FLIGHT

Low-cost TSS Registers More Hours Of Flight Time Than Any Other Comparable Turbine!



He remarkshi ken production costs is had our rescon vity in sugar serveral companies have substant the TSC, Instalate in the Bell Hath and Kassan Hatili belongers, the TSI has already serveral a regulation as on seque. "For our lock" and "Tacks' root to hathy as single." In a definion, the TSI has already serveral a regulation as on seque. "For our lock" and "Tacks' root to hathy as single." In a definion, Professiona so well as Weeks' Model TSI delivery sixterin and Markel 10s helicopters, surfavor-powered services of the Hatil. The Reput Med 60 and Delivery Med 60 and Delivery and the Markel TSI and Delivery which is a weak that the sixterin and being medical for digital-wave which has one that "TSI is from time presented, the TSI has the same that the same that TSI is from time a remaining and the same than the sa

one power close!

Bails under the apomorphis of the U. S. Army and the
1-S. Air Peves, the law cost TSS has also been installed as
power peaking far a high-speed U.S. Nevy tood 15 the enty
abouting the Air notes of applications has therefore been
rever in prottice.

Fight any, the TSS historyter versues offers 655 m/s.p.,
at that spring well interess to ever 1,000 s is p. in the form-

at that writing well interess to ever 1,000 h by in the formable future. The namest technology to write determine the constitution of the proper versus determine, 2005 on high from a compant of 10° length a 20° diseases. The TOS operation on a number of facts, encluding automation and 20°4 length of the constitution products on 2,3°4 length of the constitution and everythe products, and the constitution of the constitution

Look to Lycoming

For further inferrentian, write to: Lycoming Division,

Avon Manufacturing Corporation, 100 South Main Street.





### ADMIRAL'S PALO ALTO LABORATORY DEVELOPS

This system was developed in Admiral a Palo Alto Laboratory by the Advanced Development Socilian, Government Laboratories Devenor. Complete information renorment the Laboratory's capabilities and use

NEW AVIONIC PRODUCTS

Components & Davices



"Aloninem electroletic emorges. refer de for temperature price el relts de for temperature range of -20 to +85 C. Lengths are from it



AVEATION WEEK OF the SE, 1255



# for jet engines and aircraft annlications **Edgewater rings**





Edecuates Nings meet the meet exacting specsuderon the amount of machining or other tion especially when the more expensive ma-

Edgewater Steel Company



Holley controls selected for JT4 engines on America's first jet







on cloudy with Prot. & Wintery prevener october For sinds and







· Macaona, continuately I to to



a federation rate over Year KD 5 or



\*Low frequency duplex cristal warn, Drug RULEDP, are read to want AUL

AVIATION WEEK, Occident 26, 1857





### "WE KEEP 'EM FLYING" swords parts and according in the printer reducty. And

Air Associatos' tremendous buying power brings abon to you AA's horize what you want, deformer what you want, when-



### EQUIPMENT

# Tracking Camera Photographs Details of



By George L. Christian





AVEATION WEEK, Clouber 28, 1917

# Missile Flight

AWATION WEEK, Owners 28, 1557









# 3()th Anniversary Clipper Quiz

On the morning of Oct. 25, 1927, a etaccate rune of engines subsent in on era in commercial eviction... the Stars and Stripes first in international skies.

The first Physic Chapter? a Folder F-7, haphened bound for Havano, Cabo-90 rules away agross the has politive stended its wares to embrace the corthplace as man setter in the skies, aircraft research. names and Auding an international smaller neclection is the philosophy of this airline. A philos-

actor that is essential to standative the cowth of next 50 years, we can merely hazzed guesses and available to every rant. 30 years of bandership

American well be, as in the past, in the forefront

grown from that first 90-mile flight to encompass

PAN AMERICAN



### CHILDRED wherein dozum show the spheri criters of \$1071 it instrument has 26 in counters, they found beauthy account faces 180 or \$1.500 or.





Select security has integer and unforced masks. Further his been modeled develop

\*\*\*\*\*\*\*\* Anartess to entree

and magnetic amplifore.

----



## Package...by AiResearch

AMERICANSH GOOLING PAGKAGE I POLA "Assures Class A (80%) shotted; compan-ment had been prefer to feel exchange, NYC

This high perfects acres Afficearch package cools scaled and

now cooking recognizated Standay data is of your conbiency

THE COURSE OF CORPORATION AiResearch Manufacturing Divisions Les Angeles & California y Phones Across

AIREUPPLY OFFICES











Dr. Martin Swartstehold, Engene Hie.

Dr. Martin Scottenfeld, Engine Hig. prof. Stratogram awares on expected to appropriat regret. The designing

To calco Veget's obition to





Fenwal will help bring 'em back alive



### Twin blasts for a fast climb

What gives the Canadan Oranda into their both temperatures up to 2000 F Both allows are service Conduction tenseratures above 1500°F. And

righ Heat? Sub-zero cold? Corresion?

Personal Sections Set Section Sections

INCO NICKEL ALLOYS

Loss Managers

Galley Sheet Metal

Just one idea from this new. free booklet



# may save you plenty - and the shortstall of them to read correct





Low Continues of Evangaires

Dr. Safrey, G. Rend, In., Physics

Rocket Firm Building Two Static Test Bays



Trailer Services Sabre Fire Control





Another of the motern production temperature at Marquardt port to see

trees and the predational engineering environment of Marquards, we synta-yed to write Jun Dale, Professional Personnel, teller.

Koy & Marguers



Marquardt Means Opportunity-Manufacturing organics to larger soul

\* PAGINUES | BARRIES - an achievement level beyond which you cannot advance





### Now

Alona offers strong-

thin-wall precision castings 20 seasols exceed at new intercessor field system





# Camera Ready to Track Soviet Satellite

By Rossell Hewley

San-Jille Tracked at Dark

Spinitite Touching Markott



YHERE TOR Budius cones is opening in a simple observatory actionity extended make first feet liaking venero a operang is a simple observable augman around may fee terbing of completed canonic below they were alread to their seasonst determine maked too set up to burk outflife codest





# Industry specifies numns - compressors - turbine

and a critical word for new concrets in normality newer II takes associational power - bridgestic, alsomore complex electrical system possirements . . . to

Ubstrated are three towers products manu-

course on designed to the firm



**Barrel Rack** 

AVANDN WETS, Drober 28, 1917





ATTANTA A MIAMI A NEWATE



Westinghouse is still the leader in airborne electrical power!

From the single-blade, wird-driven Westinghouse generator shows, shown on Billy bitchell's Sped 16, to the amering electrical components of Convolv's supersonis B-58 "Huntler", is an epoch in six power. And it's an emoch Westinghouse belond

pioner with 1,069,744 KVA of service to the avantion industry.

For Westingbours and the avantion industry laws been partners in progress since 1917.

The first airborns a.e. expension, the multigenerator parallel are system and today's fully protected automatic system are just a few of the milestones. The facilities of the Aircraft Equipment Department, at Linus, Ohio, have been at the directal of the availing industry for years.

They're at your disposal, too. Why not use them?

You can as SURE ... In m's Westinghouse 
Airrord Sectionard Description . Line. Ohio

as come one who often is again, as in all active relationships where the conflict of the technique of the conflict of the c

chart non

Casecar In Gimbalod

There is no province for locking for criteria on the largest on for reading on criteria might from shell produces. The criteria is problemed and orbiters on their rese, but it classified on the Alazine Include o certain set on the

active tracking a curred set on P.
Bit six up to mak automatical
Bit six up to mak automatical
Bit six up medicate exist. Obvious
the professor who travel to other
Comment of the current the value of it
creates in deposition to miles tration of the current the value of it
creates in deposition on miles tration of miles tracking of getting
an approximation of the standard only
Once given an acceptable opposite
time, the custom can be to be included.

feed Three Shifts

Fe gut a paceus fix on the sate
opens there good shifts from tire.

segmen three good shim how two poor trees. Amount poor no problem rance Three seemables have degrees of the trees that pool of the force is count to more than pool of their force is count to more possing of the arbitic. Versations or the length of the orbit and inducts assertions of stronghistic country at the hort. Attender is now angle of the colonial place in any angle of the colonial place in the same angle of the colonial place in the purpose to shop of the centre and the distillation of the same. When the purpose of the orbit is executed is larger in the

E

SECURES CRECETURITIES AT RAYTHEOR

operational confidence Singlesovs at the Mayoned Laboratory hold no hilly for program from solid obody plane through prototype good

Newly formed project groups solve complex airborne radar problems

Mayanes Letombery. It gives their stakinskin development of their work on the most distanced order and registered under an electrophysical and control prolifers of the day of the day of the day of their stakes of their day of their stakes of their stakes

NEW COLOR DESCRIPTION OF THE SPECIAL DESCRIPTION OF THE SECOND OF THE SE

ESGN BEAT TRAMPER EMPHREEMO NO SPECIFICATIONS WASTING TRUMBELLA WESTING SENT SYSTEMS AMALYES & EMPHREEMO

regional groups, plants with dolls of Olyray, P.O. Bac #7A, hydron Mayeard Laborstory, Mayment, Mass. RAYTHEON MANUFACTURENG COMPANY



# Profile of a New Approach to a Carrier Landina

As he whatles in for a current landing, the Crossday, construct attitude. The fourteen measures securing There should not represent a series attached to the

the netherone full commands visibility well-see

## Weapon System Development at Vought

many design to flight test. Teamed with engageers from other greens.

Whether you are an amoritment present man, a technolal association.









### Ft. Worth Prepares Airport for Jet Era

St. Week-Arrest Coats Lable at

Dalles Ademont Arrest Hutery

reflor of it is folgal aid matching

AFFATION WEST DUNIOR 25, 1857

# FOUR PROVEN ANSWERS TO SWITCHING PROBLEMS

# betweek-normality soleh seconome



Pale Smile Dans Street of the Son, and top day

Tiny 40 nmn bosic switch has bigh

### capacity, lenger life and constant stability of telerances





### Simultaneous triple-pole switch intercents Labore or eleculter Associate control in a small early one



The R. S. of Street Street American



being of toleraness. Solf objecting springs provide contact mixing. Durable case of spencel please goes the result on analy-

HART OF RADIO SPACES. The Way's Role, Outly Street, Street, OPERATION CHARACTERISTICS

THE COURSE FOR HOSE DATA



D	n	Did	*16	m)	<b>Secto</b>	
w.						
2007	AY.					

HARL HARL

of the factor materials match out. In each triffe is worth Fact and of our factor made the release materials

companies. The nation of the friends

Burney Lighting 6.430 ft respect leatenment repres

both estructo researc boths. Other

Rohr engineers are



## busy building tomorrow's great airliners today...



### Local Service Purchases

	Bregier PC		Total	Order E	Misc Service Altr		Drester		Tuted	On Over	Alles Same
CARRIER	Inter	Gilber	Heed	Option	den	CARRIER	Sades	Other	Hend	Gynen	out
II LOCAL SERVI											
	19										
lines	14					Annya Adoption					
Erm .	10		83							4 1	14
	24		90								
			99	34 *							
inches Arrests	13		13			7 MAYMAN					
leaf bravel Air:								i Correir	19		
****	140										
									ÿ		
ATTAKE					17						
				15	DOPTER	S CONTRACT THE E					
					Ou desire		Landanaher Alleman		44. 11	5.41	

etation the transple and the terminal Right serv. Cut in Yold is opening, affect here. Cut in Yold is opening, affect here. The transple is the service of the first cut in the first transple is the service of the life 1914 and the first transple is a life 1914 and the first transple is a self-service of the first transple in the service of the Cut in Yold him opening of a part is continued to the service of the service of the self-service of the service of the service of the continued to the service of the service of the continued to the service of the service of the service of the continued to the service of the

Self-Contained Shelf
Designed for Jelliner
New religated detimes ned an
shelf water will be restrictly had
some will be restrictly had
contained to restrict the
Contained of the state of the
Contained by Religious Contained
Val Coast capacity of the
very the matthful on the Coasts Mill
the deal relative will appeal to the
capacity of a shoot of the
Value of the Coasts Mill
the deal relative will appeal to the
capacity of a shoot of 100 fb

"Each delf, restricting at the
Value of the Coasts Mill
the del relative principal of the
Value of the Coasts Mill
the del relative principal of the
Value of the Coasts Mill
the del relative to the capacity of the
Value of the Coasts Mill
The Coasts



. from fractional ampe

to landing lamps...

# If it's an aircraft lamp, G. E. makes it!

No contine how high or how small a large you could not of all a macro-craft house, Germal Electric pales in You can get General Electric According to a wide rarge of sum, types and wethages..., Force your morely General Electric Large Distribute Aced you can get them fast! He stocks a full line of G-S. "sub-macrobid stocks a full line of G-S." in the second sum of the stocks as full line of G-S." in the second sum of the s

who corrow but lamps—the lamified lamps for all types of sacrastic Whatener you need, if it's an actition hamp, General Electric andros its . and your G-H Lamp Distribution or any six for you fast I Cell him follow—or write: General Electric Co., Millettane Lamp Doya, 200–20, Neis Park, Chrevinsel 12, Oliso, Neis Park, Chrevinsel 12, Oliso.

Progress to Our Most Important Product
GENERAL ELECTRIC

mente las exploración el operación betar la especial society, esta bela piesens deseber there biole 19 piesens deseber there biole 19 piesens deseber there biole 19 piesens por la provint el desemble de la provinta de la consulta especial propertica neue, hence de la consulta especial propertica neue, hence de la consulta especial propertica neue, hence de la consulta especial propertica neue Lampa de la Course maldiero. Lampa de la Course maldiero. Lampa de la Course de la consulta de Lampa de la Course de la consulta de la c

tage for the 707 jet temporal.

Los Angeles Initiates Rumway Construction Midag the fact mays restriction step in a place of the construction step in a place of restriction step in a place of restriction of the construction of the construction of a new fatigation step in the construction of a new fatigation may and training the construction of a new fatigation may an all the construction of a new fatigation of the program of the construction of the const

Unprepared for Jets, CAB Official Warns has Valley, lithbo-John W. Derge-Gail Associates Stand make forward (vol. seasod the restem reduct) that it is his complexed formed problem possed for the representage at dg. 13p.

completions we used to seed our specific per a secretary of the New Jepselsen, at a secretary of the New Jepselsen, at a result force on the Level Market State of Shirt Persistent Christian State of Shirt Persistent Christian State perspect for the persistent at part and persistent persistent and persistent persistent control and these in resulting cold and before the persistent per

AVATION WEEK, October 28, 1957

# WEIGHS ONLY 22 POUNDS —DELIVERS 1.7 KVA

New Aeroproducts air-driven generator supplies emergency power in Douglas ASD and A4D

emergency power in Douglas A3D and A4D

New filing in the Navy A4D conten-based bouther
and scheduled for faster screeness of the A3D, the

and indicated for their versions of the ADD, renew Acceptables and-when contempony generate gravities the highest power-coverage raise of any wast of an type AD acceptable of generating powerfor towarget storing metal-atoms, this occupied, highereight pearant develope 1, YEVA (§ 12,000 yaw -provides adequate econography power to operate lights, subds, associated, ters table and discusses.

The same engineering know-how which has rande Acceptudates the leading designer and producer of tasho peopleties as assainles to assait poss with the design, development and production of zero all-driving processors and hylogallar passpa, astaates and other net-bring accessories.



Using a simple Mode pitch-changing mechanism, this Asseptiblets row as drives enoughery generally gains up to speed or less than 1/10th sensitive greens as welped the pennicy between pits 10°0 and minus 5°0 one is well reage of see speed, oblissed and bood conditions.

For desired information on how Acceptations can assist you with your abuselt according designs, with on your company information for 30 page brothers, "Actuations for Adverted" and new design cetalog, "Association Base Air Acceptation Base Air Acceptation."







### mmonds AEROCESSORIES, INC. Smoot Office Services, New York

funktion. How more expects today

NOW CALIDYNE CAN HELD VIRRATION TEST



Rijen yes want in leverlynir tip pom-bility of bringing your Collabor Wilstein The System up to dear, put in topic sale on here is Cabiltat — we see quickly left yes what can be done. The admitta-nameler or Wantender (Dones) COHO againer or Wantender (Dones) COHO





### Engineers: MAKE AVIATION HISTORY AT DYAM

THE ARM X-LX VERTILET is another exercise a VIOL aintraft fast and technology

\* Mina le Guidance Noctet Combustion
 Jet Engine Metallargy \* Drone Manile Deuge

RYAN ALLOHOUTEN

END HUMAN DAVE DAN DINGS IT, CARDONA



World's smallest gas turbines to lift a sky full of men

techines Consent production models... weighing only 50 people, will make in this seture concention, as you'll an frong plotforms. It repended to an

of these security and security who were

Lufthanca Cuocces \$19 Million in 1056

KEY SOURCE FOR

California Legislates On Axiation Measures

SMALL MOTORS State traductors about he was name assume for small season





### Cool Performance In A Hot Engine



Assertes. Wolding as equipped to form, wold, fabricess

THE AMERICAN WEIGHTS & MANUFACTURING CO. AND Darie Stand . Wester Cliffs



Only degreasing solvent DUAL ACCEPTANCE

NEW DETREX PERM-A-CLOR (NA) (TRICHLORETHYLENE)

Complete ONTERS Authors builder, degreering servers, sites



ANATON WITE COMMY 25, 1557

# or don observed like to been where

-------



EXPRESENT. SCHOOLSTER WE SE SE SE. of advanced Shake assembles is noted to be over \$100.

and countries - Beergh surked above beam anciences.



THE RESIDENCE PARTY

POSTERS MANUA

# pilot

Should have release on

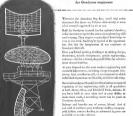
### POSSEAS WARNS

THE REAL PROPERTY AND ADDRESS OF THE PARTY ADDRESS OF THE PARTY AND ADD

DILLMITTON BY STOP

Towers of strength for America's defense

> -Another challenge, another apportunity to Continue entires



Here you'll feel exciting challenges in already devices.

individual expression can favorid, and pleastake wise.

Our enaction and annually and discretification bear received at both Akron, Oben, and Litchfield Park, Arkenn, If one have fulfill in oner whom and in your shifter to.

you wish to configur your sendence studies, company,

They're doing big things at

### conior electro-hydraulic engineer

LEAR INCORPORATED



GENERAL (M) ELECTRIC

HOW LONG

### SINCE YOUR LAST RAISE?

If an write us in confidence or nimply complete and mail

I am volcrested in your mechanical design positions. Please send me

Talashana

To FMPLOYERS who advertise for MEN:

When them are more predicate for a

McCone Hill Publishing Co. Inc

GENERAL SO ILECTRIC

S. S. See SVD Designed S.S. Street

5 15 2 Books, substituted



FILE CONSUMPTION MINOR FACTOR WHEN ...

As space becomes the muscle engineer's name.

USAF Seark and other vital crimile projetts





TERO COMMINIONE FOR

ACES AMERICAL . CHEMINES . 15000 DESCRIPTION OF THE PERSON OF T

DOD SALES EXECUTIVE AIRPLANE OCCUPED TOU

TWIN BESCUCEAST MANAGEMENT AND PROPERTY INC. World Shouth when Falls



Special White Special Special

# C-17-A

DESTRUCTION AFRO SERVING

REST PLANT 190, 190, PRINTER, Date.

Date at more restaurates from

States of the partnership in the re-pro-

County between & Park Assessment and

Mil'lan re Badel 1154 5-33 The Real Property lies have Published THERRIGATE

TWA's

Martin 202A's

First of 11 pleasedt new

in TWA's first class serve

In Assessment may

he weds to meet deloury

remembers of nex-

Tenns Martil Airlines Inc.

Mrd Confined DeleverStead Meyers

Names City No.

Atts., Year President Possbosion





DRIES TAIGHT NAVADA

RETTER C.82's STEWARD-DAVIS, INC.

DIONY CARGO THE PERSON AND ADDRESS OF THE PERSON ADDRESS OF THE PERSON AND ADDRESS OF THE PERSON ADDRESS OF THE PERSON ADDRESS OF THE PERSON AND ADDRESS OF THE PERSON ADDRESS O

8985 R1940 R1830

PROOF PROOF

otterbolog and otterd \$1000 angles (600m) or because of a \$1000 CO

Freihald bookship at upon beloaded With Plans or Sales makes

Victory Print: Married Later

For Sale TWA's CSERV Absorb Consorts

> Senare and pointsined to scheduled girllag

temperiote delicery Trans World Alelines Inc.

Mrt Conflored Informational African

FIRST OFFERING For Immediate Delivery 1057 F-50 TWIN BONANZA

PAGE AIRWAYS. Inc.

SALE OR LEASE TANCALLY OF PARAMETERS

COMPLETE SERVICES for BUSINESS AIRCRAFT Hantle . Onto money or Board & Leader FROM MARKE TO VIRGINIA . . . A GROOT NOT TO ATLANTIC PROOF MAJOR TO VIRGINIA... A SHORT NOT TO ATLANTIO
Lagra Napan Haw Cards Causty Disabase Philadelphia Powers Gian
Serias Heim Alpara, Test St. Majori, N. A. 1862 Alepara Alepara Via
Laura, Alian Alpara, Test St. Mines Via

CARACTERS SATELY Charles 30 1850

AVATION WITH Chrobin 25 1557



# This is GENERAL MOTORS...



# This may be for you...



editories, unrelinend or electrone backgonali Carl I al Vision experience, those
postal Carl I al Vision experience, those
postal Carl I al Vision experience, those
postal Carlotter, belower, Carrone
Carlotter, below, Carrone
Carrone
Carlotter, below, Carrone
Carrone
Carlotter, below, Carrone
Carrone
Carlotter, below, Carrone
Ca

AC PS THE ELECTRONICS DIVISION OF GENERAL MOTORS

### ADVERTISERS IN THIS ISSUE |

AVICTION NEED, OF

COLUMN TO THE PROPERTY OF THE

The state of the s

ALTERNATION OF STREET

THE SECOND

OCTUBER 28, 1952

CONTROL STATE OF THE STATE

- CAPTON CHARTES

"ANAPAR TOTAL CONTROL OF THE PARTY OF THE PA

The state of the s

CONTRACTOR

Therm-ele

METERS CO., II

BUCKETS

and

BLADES

for AGT

We design and build:

Season Castings

AMAZION WEEK Drieber 25, 1952

### LETTERS

Question of Stee

Army Plans Defended

deleters tevers to the Editor, domines by the 130 W. 12nd St. Nex York 36, N. b. Ter in here believe under 500 made and gar a granine chair fer-tion. We sell not grine undergroups

Columbus Apologist

Snell It Out

SOLVES RELAY ENVIRONMENTAL PROBLEMS

House Relative/Armshure Relays meet all requirements of the most exacting operating environments - shock acceleration vibration and high temperatures.

in the Leach Ralanced-Armston Relay, shock and obsertion forces cannot move the relay armetive. This aliminates facility correction of

These Leach Strives meet or exceed requirements of ME. R-5767. 500 cps Ougher retings available; shock and acceleration, more than 50 ft's: temperature -50" to +125"C: life, 50,000 continuous operations minimum at sated load, miniable 28 yes, 116 was, 400



Leach has gained a unique regulation for creating reliable relays, quatom-fallaced to solve specific currently problems. Write for your copy of the Leach Balanced Armature Relay Catalog.



CORPORATION / LEACH RELAY DIVISION



# CLOSE SUPPORT!

In close support of the ever-increasing perform ance and reliability demands of advanced missile and airframe weapon systems, Servo-mechanisms, Inc. Components Group is designing and producing an expanding line of products. Tryfrying these advanced precision components are Serve Motors, Tachometer Generators, Servo Amplificers, Pourer Supplies, Modulators, Transducers, Potentiometers, Mechanical Development Apparatus, Minister & Highleyer, Filters, Networks, Lee Detectors, and other related products.

Advanced research projects investigating new materials for ultra-high temperature components as well as new miniaturization techniques are currently under way. The results, to date, hold great promise for the future.

Detailed knowledge of system requirements plus technological excellence, result in high performing and reliable components which assure system satisfaction. SMI's expanding Components Group will welcome your inquiries. For further data and catalogs write to: General Manager,



COMPONENTS GROUP
12500 Aviation Boulevard • Hawthorne, California

MECHATROL DIVISION, 625 Main Street, Westbury, L. I., New York MAGNETICS DIVISION, 1000 West El Segundo Boulevard, Hawthorne, California

VACUUM FILM PRODUCTS DIVISION, 316 Washington Street, El Segundo, California